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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

09/19/2007

MR STEVEN M RABIN C/O RABIN & BERDO PC SUITE 500 1101 14TH STREET NW WASHINGTON, DC 20005

EXAMINER				
CAO, PHAT X				
ART UNIT	PAPER NUMBER			

2814 DATE MAILED: 09/19/2007

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/767.439	01/30/2004	Nobuhisa Kumamoto	AI 318D1	7225

TITLE OF INVENTION: PROCESS OF PRODUCING SEMICONDUCTOR CHIP WITH SURFACE INTERCONNECTION AT BUMP

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$0	\$1700	12/19/2007

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further corrindicated unless corrected be maintenance fee notifications	elow or directed othe s.	erwise in Block 1, by (a) specifying a new corre	espondence address;	; and/or (b) indicating a so	eparate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 7590 09/19/2007			Fe	e(s) Transmittal, Th	is certificate cannot be use	for domestic mailings of the d for any other accompanying ment or formal drawing, must 1.	
				Cer	tificate of Mailing or Tra	nsmission	
MR STEVEN M RABIN C/O RABIN & BERDO PC SUITE 500		I h Sta ad tra	ereby certify that th ttes Postal Service v dressed to the Mail nsmitted to the USP	is Fee(s) Transmittal is be with sufficient postage for: 1 Stop ISSUE FEE addre TO (571) 273-2885, on the	ing deposited with the United first class mail in an envelope ss above, or being facsimile e date indicated below.		
1101 14TH STREE WASHINGTON, D			Г			(Depositor's name)	
WASHINGTON, D	C 20003					(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	R	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/767,439	01/30/2004	•	Nobuhisa Kumamoto		AI 318D1	7225	
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nonprovisional	NO	\$1400	\$300	\$0	\$1700	12/19/2007	
EXAMINE	R	ART UNIT	CLASS-SUBCLASS	٦			
CAO, PHAT	ГΧ	2814	438-108000	_			
1. Change of correspondence CFR 1.363).	address or indication	of "Fee Address" (37	2. For printing on the				
	ence address (or Chan	ge of Correspondence	(1) the names of up to or agents OR, alternate	o 3 registered patentively,	nt attorneys 1		
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			registered attorney or agent) and the names of up to				
3. ASSIGNEE NAME AND	RESIDENCE DATA	TO BE PRINTED ON	THE PATENT (print or t	ype)			
PLEASE NOTE: Unless recordation as set forth in	an assignee is identif	ied below, no assignee etion of this form is NO	data will appear on the T a substitute for filing a	patent. If an assign	ee is identified below, the	document has been filed for	
(A) NAME OF ASSIGNE	•		(B) RESIDENCE: (CITY and STATE OR COUNTRY)				
Please check the appropriate	assignee category or o	categories (will not be pa	rinted on the patent):	Individual 🗖 Co	orporation or other private	group entity 🚨 Government	
4a. The following fee(s) are s	submitted:	4	— *		ny previously paid issue f	ee shown above)	
☐ Issue Fee☐ Publication Fee (No sn	nall entity discount pe	ermitted)	☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.				
Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Status (*	· · · · · · · · · · · · · · · · · · ·	_				
☐ a. Applicant claims SM NOTE: The Issue Fee and Pu	ıblication Fee (if requ	ired) will not be accepte	d from anyone other than	-	LL ENTITY status. See 37 istered attorney or agent; or	r the assignee or other party in	
interest as shown by the recor	rds of the United State	es Patent and Trademark	COffice.		, , , , , , , , , , , , , , , , , , ,		
Authorized Signature				Date			
Typed or printed name				Registration N	No		
This collection of information an application. Confidentialit submitting the completed appthis form and/or suggestions Box 1450, Alexandria, Virgin Alexandria, Virginia 22313-1 Under the Paperwork Reduct	ty is governed by 35 liplication form to the for reducing this burding 22313-1450. DO 1450.	U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th NOT SEND FEES OR	1.14. This collection is evaluation depending upon the induction office Completed Forms (COMPLETED FORMS)	stimated to take 12 ividual case. Any cocer, U.S. Patent and CO THIS ADDRESS	minutes to complete, inclu- omments on the amount of Trademark Office, U.S. D S. SEND TO: Commission		



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10/767,439 01/30/2004		Nobuhisa Kumamoto	AI 318D1	7225
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MR STEVEN M RABIN		CAO, PHAT X		
C/O RABIN & BERDO PC			ART UNIT	PAPER NUMBER
SUITE 500 1101 14TH STREE WASHINGTON, I			2814 DATE MAILED: 09/19/200	7

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/767,439	KUMAMOTO ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Phat X. Cao	2814	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	nears on the cover sheet w S (OR REMAINS) CLOSED in Some on the or	n this application. If not included unication will be mailed in due course. THIS	
1. \square This communication is responsive to $9/10/07$.			
2. ☑ The allowed claim(s) is/are <u>11-26</u> .			
 3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents hav 2. Certified copies of the priority documents hav 	e been received.		
3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).	ocuments have been receive	ed in this national stage application from the	
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which giv			
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ist be submitted.		
(a) ☐ including changes required by the Notice of Draftsper		w (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	_'		
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of I	nformal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No	/Mail Date // Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's	s Statement of Reasons for Allowance	
of Biological Material	9. 🗌 Other	<u>_</u> .	

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Art Unit: 2814

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: the prior art of record neither anticipates nor renders obvious all the limitations recited in the base claim, including the forming, after the formation of the bump or simultaneously with the formation of a part of the bump, a surface interconnection that entirely covers the portion of the second internal interconnection exposed through the second opening and that extends to the side surface of the bump to electrically connect the bump to the second internal connection, the surface interconnection having a smaller height than the bump.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phat X. Cao whose telephone number is 571-272-1703. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on 571-272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2814

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/P. X. C./ /Phat X Cao/ Primary Examiner, Art Unit 2814

9/13/07